Pultruded profiles are increasingly more prevalent in construction applications as architects and contractors utilize the lightweight, corrosion-resistant characteristics of Fiberglass Reinforced Polymer (FRP) profiles. PULTEX®, standard structural FRP profiles manufactured by Creative Pultrusions, Inc. (CPI), are high strength, light weight, corrosion resistant, fire retardant profiles consisting of plates, I-beams, W-sections, channels, tubes and angles. They can be fabricated into stand-alone or appended to new or existing structures. PULTEX® profiles can be painted for an attractive architectural look.

Structures located near the coast and prone to salt air spray are ideal candidates for the PULTEX® applications — sunscreens, handrails, louvers, balconies, steps, etc. Not only are the PULTEX® materials lighter and non-corrosive, but have fire properties that meet code requirements for many architectural applications.

The coastal community is a great representation of the appreciation for the aesthetics and sustainability attributes of FRP products as compared to steel and wood. Miami’s fiberglass fishing pier, designed with low maintenance features, sustainability attributes and ADA compliances, all while satisfying the Florida building codes, is a clear indication of architects and engineers embracing the structural and physical characteristics of pultruded materials.

The Yards at 3 Crossings, a 300-unit luxury apartment building, located in Pittsburgh’s Historic Strip District utilized PULTEX® profiles in place of steel. The FRP profiles were used to trim the base of each balcony, and were chosen because of the long life expectancy, reduced installation time and cost.
THE PULTRUSION PROCESS

Pultrusion is a continuous manufacturing process utilized to make composite profiles with constant cross-sections whereby reinforcements, in the form of roving and mats, are saturated with resin and guided into a heated die. Once in the die, the resin undergoes a curing process known as polymerization. The once resin saturated reinforcements exit the die in a solid state and in the form of the cross section of the die. The pultrusion process requires little labor and is ideal for mass production of constant cross section profiles.

ABOUT CREATIVE PULTRUSIONS

Creative Pultrusions, Inc., (CPI) is the world leader in pultrusion manufacturing. Our commitment to continuous process improvement and to become “Best in Class” has transformed CPI into a world renowned pultruder that specializes in pultruding large custom profiles, while utilizing high performance resins in combination with CPI’s proprietary high pressure injection process.

Over the course of 43 years, CPI transitioned into the company it is today. In September of 2008 CPI was acquired by Hill & Smith Holdings PLC (HS), a global leader in the design, manufacture and supply of infrastructure products, galvanizing services and building and construction products.

HS has sales of over $700 million. Headquartered in the UK and quoted on the London Stock Exchange, Hill & Smith Holdings PLC is an international group with leading positions in the design, manufacture and supply of infrastructure products and the provision of galvanizing services. Our success is driven by our strategy of innovation, product development and international expansion, alongside a highly entrepreneurial management culture. It serves its customers from facilities principally in Australia, France, India, Norway, Sweden, Thailand, the UK and the USA (30 subsidiaries operating from 52 sites in 8 countries).

THE PULTRUSION ADVANTAGE

• Lightweight
• High Strength
• Excellent Dielectric Strength
• Maintenance Cost Savings
• Reduction in Future Capex
• Superior Corrosion Resistance
• Speed of Installation